Amendments to the Claims:

Please amend claims 39-40, 46-47, 52 and 55 and cancel claims 41-45 as follows. This listing of claims will replace all prior versions and listings of claims in this application:

Listing of Claims:

- 1-38. (Canceled).
- 39. (Currently Amended) A monoclonal antibody or antigen-binding fragment thereof that binds to a type III epitope of pleiotrophin (PTN) and neutralizes at least one biological activity of PTN, wherein said biological activity is selected from the group consisting of: receptor binding activities, signaling transduction activities, cellular responses induced by PTN, promoting cancer cell growth, promoting cancer cell proliferation, promoting metastasis of cancer cells, and promoting angiogenesis.
- 40. (Currently Amended) The antibody or antigen-binding fragment thereof according to claim 39 comprising any one of the following:
- (a) a monoclonal antibody or antigen-binding fragment thereof produced by a hybridoma cell line selected from the group consisting of 3B10, 4B2, 10, 17, 24, 25, 26, 27, 31, 41, 50, 60, 87, 3-4A, and 3-11F;
- (b) an antibody or antigen-binding fragment thereof that binds to an epitope, which is substantially the same as an epitope of the monoclonal antibody or antigen-binding fragment thereof produced by a hybridoma cell line selected from the group consisting of 3B10, 4B2, 10, 17, 24, 25, 26, 27, 31, 41, 50, 60, 87, 3-4A, and 3-11FA;
- (b) a monoclonal antibody or antigen-binding fragment thereof produced by a hybridoma cell line selected from the group consisting of 3B10, 4B2, 10, 17, 24, 25, 26, 27, 31, 41, 50, 60, 87, 3-4A, and 3-11F; or

Docket No.: GUH-026-101

(c) an antibody that competitively inhibits binding of a PTN polypeptide to an antibody comprising a sequence comprising selected from SEQ ID NOs:3, 5, 6, 7, 8, 10, 11, and or 12, or SEQ ID NOs: 3 and 8,

wherein the antibody or antigen-binding fragment comprises: (i) a light chain CDR1, (ii) a light chain CDR2, (iii) a light chain CDR3, (iv) a heavy chain CDR1, (v) a heavy chain CDR2, and (vi) a heavy chain CDR3.

41-45. (Canceled).

46. (Currently Amended) The antibody or antigen-binding fragment thereof according to claim 39, wherein said antibody comprises an amino acid sequence comprising sequences with at least about 90% sequence identity with a sequence selected from SEQ ID NOs:3, 5, 6, 7, 8, 10, 11, and or 12, or SEQ ID NOs: 3 and 8,

wherein the antibody or antigen-binding fragment comprises: (i) a light chain CDR1, (ii) a light chain CDR2, (iii) a light chain CDR3, (iv) a heavy chain CDR1, (v) a heavy chain CDR2, and (vi) a heavy chain CDR3.

47. (Currently Amended) The antibody or antigen-binding fragment thereof according to the claim 39, wherein said antibody comprises an amino acid sequence comprising selected from SEQ ID NOs: 3 and or 8,

wherein the antibody or antigen-binding fragment comprises: (i) a light chain CDR1, (ii) a light chain CDR2, (iii) a light chain CDR3, (iv) a heavy chain CDR1, (v) a heavy chain CDR2, and (vi) a heavy chain CDR3.

- 48. (Canceled).
- 49. (Previously presented) The antibody or antigen-binding fragment thereof according to claim 39, wherein said antibody is selected from the group consisting of a chimeric antibody, humanized antibody, and a fully human antibody.

50. (Previously presented) The antibody or antigen-binding fragment thereof according to claim 39, wherein said antigen-binding fragment is selected from the group consisting of Fab fragment, (Fab')₂ Fragment, and a Fv fragment.

- 51. (Previously presented) The antibody or antigen-binding fragment thereof of claim 39, wherein the antibody is conjugated to a cytotoxic agent.
- 52. (Currently Amended) A polypeptide comprising an amino acid sequence <u>comprising</u> selected from SEQ ID NOs: 3, 5, 6, 7, 8, 10, or 11, and 12, or SEQ ID NOs: 3 and 8,

wherein the polypeptide comprises: (i) a light chain CDR1, (ii) a light chain CDR2, (iii) a light chain CDR3, (iv) a heavy chain CDR1, (v) a heavy chain CDR2, and (vi) a heavy chain CDR3.

- 53. (Previously presented) The antibody or antigen-binding fragment thereof according to claim 39, wherein said antibody binds to a PTN epitope at a binding affinity of at least 10⁶ M⁻¹.
- 54. (Previously presented) A pharmaceutical composition comprising the antibody according to claim 39 and a pharmaceutical carrier.
- 55. (Currently Amended) An isolated monoclonal antibody produced by the method comprising:
 - 1) selecting a host animal;
- 2) immunizing said host animal with a fusion protein comprising a <u>PTN</u> protein connected with a known T-cell epitope derived from a different protein;
 - 3) isolating a lymphoid cell from said host animal;
 - 4) fusing said lymphoid cell to a myeloma cell, so that a hybrid cell is created;
 - 5) cultivating said hybrid cell; and
 - 6) isolating a monoclonal antibody against said PTN protein produced by said hybrid cell.